

**Complete if Known**

(Use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Application Number	09/831,812
Filing Date	July 30, 2001
First Named Inventor	Hoppensteadt et al.
Art Unit	2121
Examiner Name	Holmes, Michael B.
Attorney Docket Number	9138-0018US

[illegible][illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	09/831,812
Filing Date	July 30, 2001
First Named Inventor	Hoppensteadt et al.
Art Unit	2121
Examiner Name	Holmes, Michael B.
Attorney Docket Number	9138-0018US

RECEIVED

AUG 04 2001

Technology Center 2100

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MBA	8	Hopfield, J. J., "Neural networks and physical systems with emergent collective computational abilities" Proc. Natl. Acad. Sci. USA, Vol.79, pp. 2554-2558, April 1982.	
MBA	9	Hoppensteadt, F. C., Izhikevich, E. M., "Oscillatory Neurocomputers with Dynamic Connectivity" Physical Review Letters, Vol. 81, No. 14, April 5, 1999.	
MBA	10	Linares-Barranco, B. et al., "CMOS Analog Neural Network Systems Based On Oscillatory Neurons" 1992 IEEE Intl. Symposium, Vol. 1 of 6, pp. 2236-2238.	
MBA	11	Kurokawa, H. et al., "A Local Connected Neural Oscillator Network for Sequential Character Segmentation" 1997 IEEE Intl. Conf. on Neural Networks, pp. 838-843, June 9-12.	
MBA	12	Buhmann, J. et al., "Sensory Segmentation by Neural Oscillators" IJCNN, Vol. 1, pp. 11603-607, July 8-12, 1991.	
MBA	13	Endo, S. et al., "Neural Network with Interacting Oscillators to Generate Low Frequency Rhythm" IEEE Intl. Conf., Vol. 12, pp. 1445-1446, Nov. 1-4, 1990.	
MBA	14	Lange, T. E. et al., "Phase-Locking of Artificial Neural Oscillators Can Perform Dynamic Role-Binding and Inferencing" IJCNN, Vol. 1, p. 11595, June 18-22, 1989.	
MBA	15	Wang, DeLiang "An Oscillation Model of Auditory Stream Segregation" IAPR, Vol. III, pp.198-200, October 9-13, 1994.	
MBA	16	Liu, Wei-Ping et al. "Phase-Locked Loop with Neurocontroller" SICE, pp. 1133-1138. July 20-31, 1998.	
MBA	17	Grossberg, S. "Nonlinear Neural Networks: Principles, Mechanisms, and Architectures" Neural Networks, Vol. 1, No. 1, pp. 17-61, 1988.	

Examiner Signature	<i>Michael B. Holmes</i>	Date Considered	10/25/04
--------------------	--------------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.